

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 57049605
PUBLICATION DATE : 23-03-82

APPLICATION DATE : 10-09-80
APPLICATION NUMBER : 55124715

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INT.CL. : C08F 10/02 C08F 4/02 C08F 4/22

TITLE : SOLID CATALYST OF CARRIER SUPPORTED TYPE

ABSTRACT : PURPOSE: To obtain the titled catalyst capable of providing an ethylene polymer, etc. having improved stress cracking resistance and processing characteristics, by supporting a specific organo Ti compound and an organo Cr compound soluble in an inert hydrocarbon on a hydroxyl group-containing porous silica, etc., followed by calcining the compounds under specified conditions.

CONSTITUTION: (A) A hydroxyl group-containing porous silica and/or silica alumina, (B) a tetravalent organotitanium compound (e.g., tetramethoxy titanium, etc.) containing at least one alkoxy group, soluble in an inert hydrocarbon (e.g., n-hexane, etc.) solvent, and (C) an organochromium compound (e.g., ditertiary-butyl chromate, etc.) are treated simultaneously in an inert hydrocarbon at $\leq 140^{\circ}\text{C}$, and the solvent is removed by evaporation. The treated compounds are heated to $300\text{--}1,000^{\circ}\text{C}$ while being fluidized by an inert gas, and they are calcined while being fluidized by a dried oxygen-containing gas substituted for the inert gas.

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